

Notice of Allowability

Application No.

09/893,543

Examiner

Eva Yi Zheng

Applicant(s)

FRIEDMAN, ROYI

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/4/05.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☒ The drawings filed on 6/29/01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-12 are allowed.
2. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches or suggest that a method and a device for fast and synchronization of multiframe structures. Detecting a period binary signature in a binary signal transmitted at a particular bit rate. The signature forming a pre-selected binary code having a code length of "C" binary symbols spread over the signal with a known spacing "D" of bits between the binary symbols of the signature as well as between adjacent signatures; the device comprising: a state machine including a logical interconnected with a memory block, the memory block of the state machine comprising "D" independent memory cells each having its serial number, the memory cells being cyclically connectable to the logical scheme; each of the memory cells, when in conjunction with the logical scheme, being capable of registering "K" successive binary states of the state machine including an initial state and a terminal state; "K" states comprising "C" successive binary states respectively associated with "C" binary symbols of the code successively appearing in said signature; a control unit responsible for switching said logical scheme to D memory cells according to their serial numbers and in a cyclical manner at a rate equal to the bit rate of said signal so that, a different memory cell is connected to the logic scheme at each of the time clocks within a group of D time clocks, the control unit being further capable continuously checking whether at least one cell of the "D" memory cells has registered the terminal state, and of selecting

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therefrom a single one considered as detecting the signature; the arrangement being such that, if one and the same initial binary state is assigned to all the cells in the memory block, and if said binary signal is applied to the state machine at its bit rate, each bit in any group of D successive bits of the binary signal will be processed using a particular cell of the memory cells, thereby associating each of the memory cells with a particular bit in any group of D successive bits and allowing a periodic signature formed by a particular bit within said successive bits to be detected by the respective particular memory cell of D cells, wherein: "C" - is an integer which is a number of binary positions of the periodic binary signature, "D" - is an integer, the integer being a) a number of binary positions of the binary signal forming the spacing between adjacent binary symbols of the periodic binary signature, and b) a number of independent memory cells, "K" - is an integer which is a number of successive binary states of the state machine, "K" being no less than "C".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Yi Zheng whose telephone number is (571) 272-3049. The examiner can normally be reached on 7:30-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-879-9306.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Eva Yi Zheng
Examiner
Art Unit 2634

March 31, 2005



**SHUWANG LIU
PRIMARY EXAMINER**